NAME:

Home Work 10.
MAP 2302 - Differential Equations

Solve the following ODE using the Reduction of Order:

1. $(x^2 + 1)y'' - 2xy' + 2y = 0$; $y_1(x) = x$

2. $x^2 y'' - 4xy' + 4y = 0$; $y_1(x) = x$

3. $y'' - y = e^x$

4. $y'' + y = \csc x$

5. $2x^2 y'' + xy' - y = x$; $y_1(x) = x$